

Amilan® CM1056

Polyamide 6
Toray Resin Company

Message:

Amilan® CM1056 is a Polyamide 6 (Nylon 6) product. It can be processed by blow molding and is available in Asia Pacific, Europe, or North America. Characteristics include:
High Viscosity
Impact Resistant

General Information				
Features		High Impact Resistance High Viscosity		
Uses		Blow Molding Applications		
Processing Method		Blow Molding		
Part Marking Code		>PA6<		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.09	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
23°C, 24 hr	1.7	--	%	
Saturation, 23°C	8.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	114	--		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress				ISO 527-2
-40°C	105	95.0	MPa	
23°C	60.0	35.0	MPa	
80°C	25.0	20.0	MPa	
Tensile Strain				ISO 527-2
Break, -40°C	3.5	1.0	%	
Break, 23°C	50	50	%	
Break, 80°C	50	50	%	
Flexural Modulus				ISO 178
-40°C	2900	--	MPa	
23°C	2100	700	MPa	
80°C	500	--	MPa	
Flexural Stress				ISO 178
-40°C	130	--	MPa	
23°C	80.0	--	MPa	
Taber Abrasion Resistance (1000 Cycles)	6.00 to 7.00	--	mg	ISO 9352

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14	--	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength				ISO 179
-40°C	16	54	kJ/m ²	
23°C	No Break	--		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	160	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	51.0	--	°C	ISO 75-2/A
Melting Temperature	225	--	°C	DSC
CLTE - Flow	8.0E-5 to 9.0E-5	--	cm/cm/°C	ISO 11359-2

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